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LIST OF PATENTS AND PUBLICATIONS
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Sheet 1 of 8
7

In the Application of BARNETT et al.

Serial No.: 09/475,704

Art Unit: ~~1633~~ 1635

Filed: December 30, 1999

Examiner: Shin Lin Chen

Title: POLYNUCLEOTIDES ENCODING ANTIGENIC HIV TYPE C POLYPEPTIDES, POLYPEPTIDES AND USES THEREOF

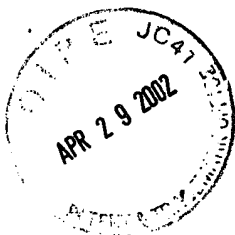
U.S. PATENT DOCUMENTS

| Exam. Init. | Ref. Desig. | Document No. | Date | Name | Class | Sub Class | Filing Date |
|---------------|-------------|--------------|-------------------|-----------------|-------|-----------|-------------|
| PA | AA-2 | 4,652,639 | March 24, 1987 | Stabinsky | | | |
| | AB-2 | 4,861,707 | August 29, 1989 | Ivanoff et al. | | | |
| | AC-2 | 5,082,767 | January 21, 1992 | Hatfield et al. | | | |
| | AD-2 | 5,180,247 | July 14, 1992 | Kniskern et al. | | | |
| | AE-2 | 5,156,949 | October 20, 1992 | Luciw et al. | | | |
| | AF-2 | 5,688,688 | November 18, 1997 | Luciw et al. | | | |
| | AG-2 | 5,786,464 | July 28, 1998 | Seed | | | |
| | AH-2 | 5,792,459 | August 11, 1998 | Haigwood | | | |
| | AI-2 | 5,795,737 | August 18, 1998 | Seed et al | | | |
| | AJ-2 | 5,840,313 | November 24, 1998 | Vahlne et al. | | | |
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| | AL-2 | 5,859,193 | January 12, 1999 | Devare et al. | | | |
| | AM-2 | 5,876,724 | March 2, 1999 | Girard | | | |
| | AN-2 | 5,876,731 | March 2, 1999 | Sia et al. | | | |
| | AO-2 | 6,090,388 | July 18, 2000 | Wang | | | |

Examiner: P. A. Kim

Date Considered: 7/1/02

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FOREIGN PATENT DOCUMENTS

| Exam. Init. | Ref. Desig. | Document No. | Publication Date | Country or Patent Office | Class | Sub Class | Translation | |
|-------------|-------------|--------------|-------------------|--------------------------|-------|-----------|-------------|----|
| | | | | | | | YES | NO |
| | AP-2 | WO 90/00556 | January 25, 1990 | PCT WIPO | | | | |
| | AQ-2 | WO 96/30523 | October 3, 1996 | PCT | | | | |
| | AR-2 | WO 97/48370 | December 24, 1997 | PCT | | | | |
| | AS-2 | WO 98/12207 | March 26, 1998 | PCT | | | | |
| | AT-2 | WO 00/29561 | May 25, 2000 | PCT WIPO | | | | |
| | AU-2 | 0 199 301 A1 | October 29, 1986 | EPO | | | | |
| | AV-2 | 0 449 116 B1 | October 2, 1991 | EPO | | | | |

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)

| Exam. Init. | Ref. Desig. | Description |
|-------------|-------------|---|
| Dr | AW-2 | Barre-Sinoussi et al., "Isolation of a T-lymphotropic retrovirus from a patient at risk for acquired immune deficiency syndrome (AIDS)" <i>Science</i> 220:868-871 (1983) |
| Dr | AX-2 | Bolognesi et al., "NIH conference. HIV vaccine development: a progress report" <i>Ann. Int. Med.</i> 8:(7):603-611 (1994) (Moderator: D.F. Hoth) |

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|-------------|-------------|---|
| <u>PR</u> | AY-2 | Borsetti et al., "The C-terminal half of the human immunodeficiency virus type 1 Gag precursor is sufficient for efficient particle assembly" <i>J. Virol.</i> <u>72</u> (11):9313-9317 (1998) |
| | AZ-2 | Burton et al., "The antibody response in HIV-1 infection" <i>AIDS</i> 11(Suppl. A):S87-S98 (1997) |
| | BA-2 | Cao et al., "Replication and neutralization of human immunodeficiency virus type 1 lacking the V1 and V2 variable loops of the gp120 envelope glycoprotein" <i>J. Virol.</i> 71(12):9808-9812 (1997) |
| | BB-2 | Cheng-Mayer, "Isolates of human immunodeficiency virus type 1 from the brain may constitute a special group of the AIDS virus" <i>PNAS USA</i> <u>86</u> :8575-8579 (1989) |
| | BC-2 | D'Souza et al., "Evaluation of monoclonal antibodies to human immunodeficiency virus type 1 primary isolates by neutralization assays: performance criteria for selecting candidate antibodies for clinical trials. AIDS Clinical Trials Group Antibody Selection Working Group." <i>J. Infect. Dis.</i> 175:1056-1062 (1997) |
| | BD-2 | Earl et al., "Oligomeric structure of the human immunodeficiency virus type 1 envelope glycoprotein" <i>PNAS USA</i> <u>87</u> :648-652 (1990) |
| | BE-2 | Earl et al., "Biological and immunological properties of human immunodeficiency virus type 1 envelope glycoprotein: analysis of proteins with truncations and deletions expressed by recombinant vaccinia viruses" <i>J. Virol.</i> <u>65</u> :31-41 (1991) |
| | BF-2 | Fiore et al. "The biological phenotype of HIV-1 is usually retained during and after sexual transmission" <i>Virol.</i> 204:297-303 (1994) |
| <u>PR</u> | BG-2 | Freed, E.O., "HIV-1 gag proteins: diverse functions in the virus life cycle" <i>Virology</i> <u>251</u> :1-15 (1998) |

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| Exam. Init. | Ref. Desig. | Description |
|-------------|-------------|--|
| BR | BH-2 | Haas et al., "Codon usage limitation in the expression of HIV-1 envelope glycoprotein" <i>Current Biology</i> 6(3):315-324 (1996) |
| | BI-2 | Haynes et al., "Toward an understanding of the correlates of protective immunity to HIV infection" <i>Science</i> 271:324-328 (1996) |
| | BJ-2 | Hu et al., "Protection of macaques against SIV infection by subunit vaccines of SIV envelope glycoprotein gp160" <i>Science</i> 255:456-459 (1992) |
| | BK-2 | Javaherian et al., "Principal neutralizing domain of the human immunodeficiency virus type 1 envelope protein" <i>PNAS</i> 86:6786-6772 (1989) |
| | BL-2 | Jefferis et al., "Antigenicity of truncated forms of the human immunodeficiency virus type 1 envelope glycoprotein" <i>J. of Gen. Virol.</i> 77:1403-1410 (1996) |
| | BM-2 | Kang et al., "Evidence for non-V3-specific neutralizing antibodies that interfere with gp120/CD4 binding in human immunodeficiency virus 1-infected humans" <i>PNAS USA</i> 88:6171-6175 (1991) |
| | BN-2 | Kwong et al., "Structure of an HIV gp120 envelope glycoprotein in complex with the CD4 receptor and a neutralizing human antibody" <i>Nature</i> 393:648-659 (1998) |
| | BO-2 | Lu et al., "Immunogenicity of DNA vaccines expressing human immunodeficiency virus type 1 envelope glycoprotein with and without deletions in the V1/2 and V3 regions" <i>AIDS Res. Hum. Retroviruses</i> 14(2):151-155 (1998) |
| | BP-2 | Mammano et al., "Role of the major homology region of human immunodeficiency virus type 1 in virion morphogenesis" <i>J. Virol.</i> 68(8):4927-4936 (1994) |
| RV | BQ-2 | Mascola et al., "Two antigenically distinct subtypes of human immunodeficiency virus type 1: viral genotype predicts neutralization serotype" <i>J. Infect. Dis.</i> 169:48-54 (1994) |

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| Exam. Init. | Ref. Desig. | Description |
|-------------|-------------|--|
| <i>pn</i> | BR-2 | Matsushita et al., "Characterization of a human immunodeficiency virus neutralizing monoclonal antibody and mapping of the neutralizing epitope" <i>J. Virol.</i> 62:2107-2144 (1988) |
| | BS-2 | Matthews "Restricted neutralization of divergent human T-lymphotropic virus type III isolates by antibodies to the major envelope glycoprotein" <i>PNAS USA</i> 83:9709-9713 (1986) |
| | BT-2 | McDougal et al., "Binding of the human retrovirus HTLV-III/LAV/ARV/HIV to the CD4 (T4) molecule: conformation dependence, epitope mapping, antibody inhibition, and potential for idiotypic mimicry" <i>J. Immunol.</i> 137:2937-2944 (1986) |
| | BU-2 | Montefiori et al., "Toward an HIV type 1 vaccine that generates potent, broadly cross-reactive neutralizing antibodies" <i>AIDS Res. Hum. Retroviruses</i> 15(8):689-698 (1999) |
| | BV-2 | Nara et al., "Purified envelope glycoproteins from human immunodeficiency virus type 1 variants induce individual, type-specific neutralizing antibodies" <i>J. Virol.</i> 62:2622-2628 (1988) |
| | BW-2 | Palker et al., "Type-specific neutralization of the human immunodeficiency virus with antibodies to env-encoded synthetic peptides" <i>PNAS USA</i> 85:1932-1936 (1988) |
| | BX-2 | Peng et al., "Enhancement or inhibition of HIV-1 replication by intracellular expression of sense or antisense RNA targeted at different intermediates of reverse transcription" <i>AIDS</i> , 11:587-595 (1997) |
| | BY-2 | Putney et al., "HTLV-III/LAV-neutralizing antibodies to an E. coli-produced fragment of the virus envelope" <i>Science</i> 234:1392-1395 (1986) |
| <i>pn</i> | BZ-2 | Ratner et al., "Complete nucleotide sequence of the AIDS virus, HTLV-III" <i>Nature</i> 313:277-284 (1985) |

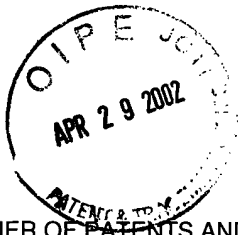
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| Exam. Init. | Ref. Desig. | Description |
|-------------|-------------|--|
| <i>BM</i> | CA-2 | Robert-Guroff et al., "HTLV-III-neutralizing antibodies in patients with AIDS and AIDS-related complex" <i>Nature</i> (London) 316:72-74 (1985) |
| | CB-2 | Rusche et al., "Antibodies that inhibit fusion of human immunodeficiency virus-infected cells bind a 24-amino acid sequence of the viral envelope, gp120" <i>PNAS USA</i> 85:3198-3202 (1988) |
| | CC-2 | Sanchez-Pescador et al., "Nucleotide sequence and expression of an AIDS-associated retrovirus (ARV-2)" <i>Science</i> 227(4686):484-492 (1985) |
| | CD-2 | Stamatatos et al., "Effect of major deletions in the V1 and V2 loops of a macrophage-tropic HIV type 1 isolate on viral envelope structure, cell entry, and replication" <i>AIDS Res. Hum. Retroviruses</i> 14(13):1129-1139 (1998) |
| | CE-2 | Stamatatos et al., "The ability of an oligomeric human immunodeficiency virus type 1 (HIV-1) envelope antigen to elicit neutralizing antibodies against primary HIV-1 isolates is improved following partial deletion of the second hypervariable region" <i>J. Virol.</i> 72(10):7840-7845 (1998) |
| | CF-2 | Thali et al., "Characterization of conserved human immunodeficiency virus type 1 gp120 neutralization epitopes exposed upon gp120-CD4 binding" <i>J. Virol.</i> 67(7):3978-3988 (1993) |
| | CG-2 | Trkola et al., "Cross-clade neutralization of primary isolates of human immunodeficiency virus type 1 by human monoclonal antibodies and tetrameric CD4-IgG" <i>J. Virol.</i> 69(11):6609-6617 (1995) |
| | CH-2 | Wang et al., "Assembly of HIV GAG-B-galactosidase fusion proteins into virus particles" <i>Virology</i> 200:524-534 (1994) |
| <i>Bv</i> | CI-2 | Weiss et al., "Neutralization of human T-lymphotropic virus type III by sera of AIDS and AIDS-risk patients" <i>Nature</i> (London) 316:69-72 (1985) |

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|-------------|-------------|--|
| RV | CJ-2 | Weiss et al., "Variable and conserved neutralization antigens of human immunodeficiency virus" <i>Nature</i> (London) 324:572-575 (1986) |
| | CK-2 | Wyatt et al., "Involvement of the V1/V2 variable loop structure in the exposure of human immunodeficiency virus type 1 gp120 epitopes induced by receptor binding" <i>J. Virol.</i> 69(9):5723-5733 (1995) |
| | CL-2 | Wyatt et al., "The antigenic structure of the HIV gp120 envelope glycoprotein" <i>Nature</i> 393:705-711 (1998) |
| RV | CM-2 | Zhu et al., "Genotypic and phenotypic characterization of HIV-1 patients with primary infection" <i>Science</i> 261:1179-1181 (1993) |

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